

Appl. No. 10/033,085
Amdt. Dated November 9, 2004
Reply to Office Action of September 15, 2004

Amendments to the Specification

Please replace the paragraph beginning on Page 12, Line 8 with the following amended paragraph:

As shown in the transition between Figs. 5, 6 and 7, it will be apparent that once the tube 42 penetrates the seal 24 and those portions of the cannula body provided for sealing contact with remaining portions of the barrier assure a sealing relationship between the cannula assembly and the I V bag (in the Figs. 1 through 8 depiction, such may be provided by a portion of the top surface 40 of the shield), the caregiver may then inwardly manipulate the side panels 12 of the bag so as to firmly grasp the end 46 of the tube 44 and break such away from the remaining portion of the tube 42. The barrier seal as previously indicated is of conventional configuration/structure and as clearly indicated in the drawings includes an outer face positioned outside the bag and an inner surface longitudinally separated therefrom and in turn positioned inside the bag. It should be pointed out that the weakened line 48 to easily permit such could take a variety of forms including a peripheral score, a series of openings and the like so long as the separation of the portions 44 and 42 is facilitated by the above described action and that sufficient strength is present in the tube to enable the penetration previously described with respect to the barrier 24.

Please replace the paragraph beginning on Page 15, Line 12 with the following amended paragraph:

Fig. 15 describes a similar but different embodiment from that shown in Figs. 11 through 14 in that a separable sharpened, i.e., conically-shaped, portion 80 is provided with a lower shank 82 that extends into the open end of either a cannula tube 42 having a slanted surface 46 which may be sharpened or one having a flattened upper surface 43 such that the shank 82 extends thereinto (see Fig. 15A). A shoulder 84 of the tubular portion 80 outwardly extends therefrom and serves to contact the upper surface of the cannula tube 42 (either surface 46 or 43) thus blocking the top opening thereof and enabling the assembly to penetrate the barrier 24 as previously explained and then be manipulated to enable the separable portion 80 to become the float. An advantage of the Fig. 15 type configuration is that a separable portion 80 can be supplied as an add-on feature to an already commercially available cannula assembly. In this regard, it should also be pointed out that the sharpened surface 46 shown in the various views is somewhat simplified and that compound edges, etc. may be required to achieve a sufficiently sharp piercing point and that any shoulder 84 adapted to rest thereon would need to be similarly shaped so as to

Appl. No. 10/033,085
Amdt. Dated November 9, 2004
Reply to Office Action of September 15, 2004

firmly rest thereon. The shoulder 84 defines a lower circumferential (peripheral) edge which, in turn, forms the separation line between the separable portion 80 and the cannula upper end.

Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

Claims 1 – 13 (canceled)

Claim 14 (currently amended): The method of ~~placing~~ providing a float upon the liquid level surface of a fluid contained within ~~a container of the type including~~ an IV bag having flexible see-through opposed side walls and having ~~[[an]]~~ a lower fluid outlet having a liquid barrier seal having an outer face positioned outside the bag and an inner face longitudinally separated therefrom and positioned inside the bag and having no internal obstructions positioned above said inner barrier seal face with a cannula assembly having a hollow tube including an upper end adapted for communication with the fluid contained within the ~~container~~ bag and wherein the tube upper end further includes a

Appl. No. 10/033,085
Amdt. Dated November 9, 2004
Reply to Office Action of September 15, 2004

separable portion having a sharpened upper end and formed of a material with a lower specific gravity than that of the fluid within the ~~container~~ bag, the sequential steps comprising: forcing the sharpened upper end through both faces of the barrier seal to a position where the separable portion of the upper end of the tube is entirely above the inner face of the barrier seal and positioned essentially entirely within the bag, thereafter grasping the ~~container~~ bag side walls so as to grasp the separable portion and then removing the separable portion from the tube and releasing the separable portion such that the separable portion forms a fluid level monitoring float which floats on the upper surface of the fluid within the bag.

Claims 15 and 16 (canceled)

Claim 17 (currently amended): ~~The fluid delivery system of Claim 6,~~ the method of Claim 14 wherein said separable tube portion is a separate cap member frictionally positioned with respect to said tube upper end.

Claim 18 (currently amended): ~~The fluid delivery system~~ The method of Claim 17, wherein the separable tube portion is at least partially hollow and is positioned over said tube upper end.

Claim 19 (currently amended): ~~The fluid delivery system~~ The method of Claim 17, wherein the separable tube portion is solid and includes

Appl. No. 10/033,085
Amdt. Dated November 9, 2004
Reply to Office Action of September 15, 2004

downwardly extending connecting means for temporarily connecting said separable tube portion with said tube upper end.

Claims 20 and 21 (canceled)

Claim 22 (new): The method of providing a float upon the liquid level surface of a fluid contained within an IV bag having flexible see-through opposed side walls and having an outlet having a liquid barrier seal having an outer face positioned outside the bag and an inner face longitudinally separated therefrom and positioned inside the bag and having no internal obstructions positioned above said inner barrier seal face with a cannula assembly having a hollow tube including an upper end adapted for communication with the fluid contained within the bag and wherein the tube upper end further includes a separable portion having a sharpened upper end and formed of a material with a lower specific gravity than that of the fluid within the bag, said separable portion frictionally disposed upon said tube upper end separable therefrom along a circumferential separation line, the sequential steps comprising: forcing the sharpened upper end through both faces of the barrier seal to a position where said circumferential separation line between the upper end of the tube and the separable portion is entirely above the inner face of the barrier seal and the separable portion positioned entirely within the bag, thereafter grasping the bag

side walls so as to grasp the separable portion and then removing the separable portion from the tube and releasing the separable portion such that the separable portion forms a fluid level monitoring float which floats on the upper surface of the fluid within the bag.

Claim 23 (new): The fluid delivery system of Claim 22, wherein said separable tube portion is a separate cap member frictionally positioned with respect to said tube upper end.

Claim 24 (new): The fluid delivery system of Claim 22, wherein the separable tube portion is at least partially hollow and is positioned over said tube upper end.

Claim 25 (new): The fluid delivery system of Claim 22, wherein the separable tube portion is solid and includes downwardly extending connecting means for temporarily connecting said separable tube portion with said tube upper end.